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1967

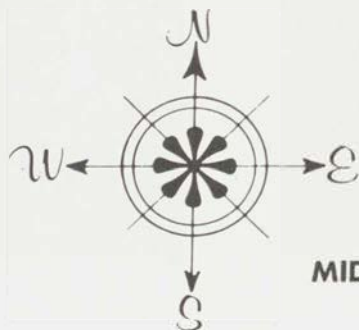
FORESTRY KAIMIN





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presents
The
1967
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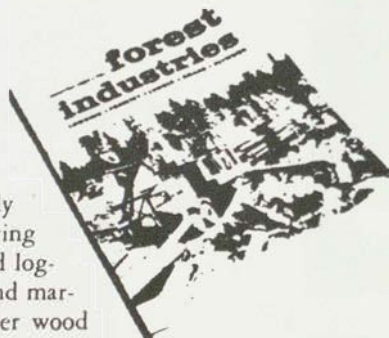




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Dedication

TO THE MEMORY OF
Arden Davis, Jr.

CLASS OF 1964

who was killed in a smokejumping
accident in Alaska during the
summer of 1966



TO
Morgan Thick

for his many years of faithful
service to the Forestry School,
Club, and its other
organizations



"... milestones for forestry education ..."

State of the School Message

By DEAN ARNOLD W. BOLLE

Forestry Kaimin Editor, Bob Thomas, requested me to prepare the traditional State of the School of Forestry message for the 1966-67 Kaimin. The year will



DEAN BOLLE

be remembered as one presenting several milestones for forestry education and research in Montana.

Dr. Robert Wambach joined the UM faculty in spring '67 to replace Kent Adair. Bob is an alumnus of ours, earning his Bachelor's Degree in 1957. He was the first Montana forestry student to earn a Fulbright Fellowship. He also won an Honors Scholarship as a student here and the Donald M. Mathews Memorial Award in Forest Management at the University of Michigan where he was awarded his Master's in Forest Management under Ken Davis in 1959. He was

granted his Ph.D. in Forest Economics at the University of Minnesota in 1966.

Bob has worked for the U.S. Forest Service in Management and Economics Research and for the past two years was research project leader in silviculture and management of northern conifers and was director of the Forest Service laboratory at Grand Rapids, Minnesota.

Bob has a number of important publications to his credit and is recognized widely for his work in economic and mathematical approaches to decision-making in forestry. He has conducted seminars and given papers at the Universities of Minnesota, Wisconsin, Michigan, Michigan State, Syracuse and Yale, in addition to many professional groups throughout the country. I'm sure that the students will find him an inspiring professor.

Kent Adair resigned to accept a position at the University of Missouri, where he joins Gene Cox and Ken Moore, two other former forestry faculty from the University of Montana.

An exciting endeavor was undertaken in Wood Chemistry with the appointment of Dr. Fred Shafizadeh. Fred is the director of the new University of Montana Wood Chemistry Research Laboratory which is conducted jointly by the School of Forestry and the Chemistry Department. The interdisciplinary wood chemistry program was established by a \$143,000 grant from the Hoerner-Waldorf Paper Products Company in Missoula. Fred had been director of the pioneering research department of the Weyerhaeuser Company since the department was established in 1960. He received his Bachelor's degree from the Technical Institute of Teheran, Iran and in 1950 was granted a Ph.D.

in Organic Chemistry from the University of Birmingham, England. He was a research associate at Pennsylvania State and Ohio State University before joining Weyerhaeuser. He is author of numerous research papers in scientific journals and has co-authored chapters on Carbohydrates in the Encyclopedia Britannica, the Encyclopedia of Plant Physiology, and in other reference works. He also has presented the results of his studies before many scientific meetings, and is recognized as a leading carbohydrate chemist both nationally and internationally. He has introduced three undergraduate courses in Wood Chemistry and has already accumulated several graduate students.

Program Expansion

Our two new staff members from a year ago, Doctors Lowe and Konizeski, are expanding their programs. Jim Lowe has revised the general course in forest entomology and has added two additional undergraduate courses and work at the graduate level. Dick Konizeski has revised and expanded the program in hydrology providing greater opportunities for students at the undergraduate and graduate level. An innovation of Dick's brought nationally recognized speakers on water in a nine-week series of Water Resources seminars during the winter quarter. Both of these men have developed interesting research projects and have been active in regional and national organizations in their fields. These two men already have added a great deal to our program and to the life of the forestry students.

Dick Behan is at the University of California in Berkeley, completing his doctorate in forest policy and administration. Dick was the recipient of a \$12,400 grant from the National Science Foundation for his doctoral work. This is a honor for Dick and for the School. On the other hand, the staff feels that this also is one of the best expenditures of federal funds we know. At the last report his hair was still short and his face clean shaven and we're sure he'll keep his cool down in hippie-land. We look forward to his return.

Doctoral Progress

Lee Eddleman completed his doctoral requirements during the year at Colorado State University. Jim Faurot and Bill Gibson made further progress on their doctoral theses at Syracuse and Michigan, respectively.

Les Pengelly received the 1967 Professional Conservationist Award of the American Motors Corporation in recognition of his outstanding leadership in conservation activities over the years. He also was appointed to the Awards Committee of the National Wildlife Society.

Range Management President

Mel Morris served as national president of the American Society of Range Management and was appointed to the Committee on Education in Agriculture and National Resources of the National Academy of Science.

Dick Taber was appointed International Biological Program Coordinator for Pakistan by the Smithsonian Institution and served as program chairman of the Technical Session in Forest and Range Resources at the North American Natural Resources Conference in San Francisco.

John Krier was elected a director of the Northwest Wood Products Clinic and a trustee of the Forest Products Research Society. Jim Faurot was appointed to the D-7 Committee on Wood for the American Society for Testing and Materials.

Enrollment continues to climb. There were 361 undergraduate foresters from 34 states and 5 foreign countries. In addition, we had 43 graduate students and 97 pre-foresters. Student organizations were as active as ever with an outstanding Golden Anniversary Foresters' Ball and conservation week. Those activities are covered in other portions of this book.

Senior Bull Session

One of the significant developments, I feel, is the annual senior bull session we hold each spring. This year we held the third such session and I believe all the staff members were particularly impressed with the comments and suggestions made by the students. At this open session for seniors and faculty we invite comment, criticism and suggestions from the students. The students understand that no holds are barred and that nothing they say will be held against them. From the three sessions have come some helpful ideas which we have put into effect in the curriculum. From the sessions we have also gained a new level of respect for the ability of our students to think and transmit their ideas.

Forestry Sciences Lab

The United States Forest Service completed in February its new Forestry Sciences Laboratory, located south of the Forestry School on East Beckwith. The dedication under May sunshine proved to be a gala affair, with Montana's Senator Lee Metcalf delivering the major address.

Faculty Affiliates

We are delighted to have these new scientists on campus and are already calling on them in many ways. The director's representative for the lab is Edward S. Kotok, who, incidentally, will teach Dick Behan's two-quarter sequence course in Policy and Administration during the 1967-68 year. Ed has forestry degrees from the University of California at Berkeley and the University of Michigan. He has been with the Inter-mountain Forest and Range Experiment Station for the past 12 years.

The eight project leaders, eight supporting scientists and technicians at the lab have been named faculty affiliates of our school, permitting the lab and the school to share library and laboratory facilities on a reciprocal basis.

We also have been able to use some space for equipment and research in the new lab building, which is a half million dollar installation. A number of our graduate and undergraduate students are working with

these men and several of the scientists are doing graduate work at the University. It already has become a close and mutually beneficial relationship.

We don't have a new building yet, but we're moving closer. The 40th Montana Legislature appropriated money for a new University science complex, which will be built in the parking area south of the school. Forestry is scheduled to utilize one full floor in the complex, in addition to the existing forestry building. This will approximately double our present space. Ground breaking is expected in a few months. We are now negotiating for more space for faculty offices, laboratories and graduate student space in a nearby residence to help until we can move into the new building.

Research Programs

Our research program continues to expand. Each of the faculty members now has some time for research and a few can devote one-half of their time to research. The legislature has increased considerably the appropriation to the Forest and Conservation Experiment Station and we have been able to augment this significantly from outside funds. This support has made it possible to expand staff, provide equipment and other expenses and to employ a considerable number of students both graduate and undergraduate throughout the year. This research resulted in 24 publications by faculty during the 1966-67 year. Our faculty has participated more in national professional meetings and is more current on recent developments in forestry. The most direct result is a better and more up-to-date education for our students.

Return visits to the school by forestry alumni seem to be on the increase. All of the staff are pleased with this development. We like to visit with our former students and be brought up to date. We hope that alumni will always keep in touch with us and let us know how we can produce better foresters. We hear good things about you from employers but we realize that we can't rest on our laurels. We need you to keep prodding us.

DR. ARNOLD W. BOLLE is the fifth dean to serve the University of Montana School of Forestry since it was established in 1913. Dean Bolle succeeded retiring Dean Ross Williams in July 1962.

Before joining the forestry faculty in 1955 as an associate professor of forestry Dean Bolle had had positions with the U.S. Forest Service and the U.S. Soil Conservation Service. He also was a dude rancher in Wyoming 1947-49.

Dean Bolle was named professor of forest economics and policy in 1958 after he was awarded his doctorate in public administration by Harvard University. He also has a master's degree from Harvard, a B.S. in forestry from the University of Montana '37 and a B.A. in liberal arts from Northwestern College in Wisconsin '34.

In addition to serving as dean he also is director of the Montana Forest and Conservation Experiment Station. He often is called upon to serve as a consultant to federal and state agencies and private industry, and he has published several works in his academic field.

Dean Bolle was the president of the National Council of Forestry School Executives during 1966-67. He also was a member of the panel of National Resources for the National Academy of Sciences and chairman of the Montana Joint University Water Research Council.

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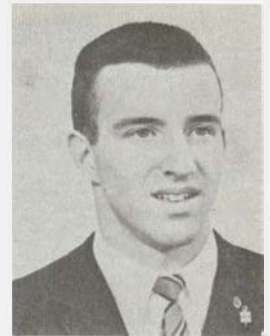
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Montana

Forestry Faculty

STEPHEN F. ARNO

Instructor, Forest Rec. curriculum. Attended Washington State University, B.S.F.; University of Montana, M.F.. 3 years working for National Park Service.



LEE EDELMAN

Instructor, Range Management. B.S. Colorado State University; M.S. Colorado State University. Experience: 2 years teaching.



GEORGE M. BLAKE

Assistant Professor, Silviculture. B.S.F. University of Idaho; M.S. University of Minnesota; Ph.D. University of Minnesota. Experience: 5 years teaching; Research Assistant University of Minnesota; Research Forester, U.S.F.S.



JAMES L. FAUROT

Assistant Professor, Engineering, Mechanical Properties of Wood. B.S.F. University of Montana; M.F. University of Washington. Experience: 10 years teaching, 5 years professional. Organizations: S.A.F., Montana Druids, Xi Sigma Pi, Sigma Xi.



WILLIAM K. GIBSON

Research Associate, Economics and Management. B.S.F. University of Montana; M.F. University of Montana; Ph.D. University of Michigan. Experience: 3 years B.L.M., 7 years Montana State Foresters Office.



FRED L. GERLACH

Assistant Professor, Logging, Photogrammetry, Photo Analysis. Attended Ohio State University; B.S.F. University of Montana; M.F. University of Montana. Experience: 9 years teaching, 6 years professional.



MANFRED L. HAIGES

Instructor, Surveying, Forest Graphics, Slide Rule, Hydrology. B.S. University of Montana; M.S. Colorado State University. Experience: 6 years teaching, 2 years professional. Registered Land Surveyor. Private Pilot. Organizations: Xi Sigma Pi, Montana Druids, Masonic Lodge.





JOHN P. KRIER

Professor, Wood Utilization. B.S.F. University of Idaho; M.S.F. University of Idaho; Ph.D. Yale University. Experience: 18 years teaching, 7 years research.



R. L. KONIZESKI

Professor, Hydrology. Attended Washington State University; B.S. University of Chicago, M.S. and Ph.D. Experience: 17 years professional, 1 year teaching.



ROBERT W. LANGE

Assistant Professor, Dendrology, Mensuration. Director Lubrecht Forest Camp. B.S. Colorado State University; M.F. Colorado State University. Experience: 9 years professional, 11 years teaching.



JAMES H. LOWE, JR.

Assistant Professor, Forest Entomology, Micrometeorology. B.A. University of Tennessee; M.S. Ohio State University; Ph.D. Yale University. Experience: 6 years professional, Graduate Assistant Teaching—Yale and Ohio State University.



ROBERT A. MCKINSEY

Research Assistant, Forest Management and Logging Engineering. On Staff of Montana State Forest and Conservation Experiment Station. Attended University of Minnesota, University of Arkansas, B.S. University of Montana.

MELVIN S. MORRIS

Professor, Range Management. B.S. and M.S. Colorado State University. Attended University of Chicago. Experience: 27 years teaching, 6 years research. Organizations: Fellow, American Association for Advancement of Science, Pres. Am. Society of Range Mgmt., S.A.F. Montana Academy of Science.



THOMAS J. NIMLOS

Associate Professor, Soils. B.S. University of Wisconsin; M.S. University of Wisconsin; Ph.D. University of Wisconsin. Experience, 3 years professional, 5 years teaching.



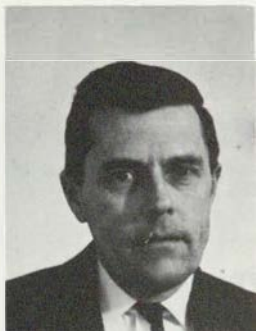
W. LESLIE PENGELLY

Associate Professor, Wildlife. A.B. Northern Michigan University; M.S. University of Michigan; Ph.D. Utah State University. Experience: 8 years teaching, 12 years professional. Organizations: Sigma Xi, Xi Sigma Pi, Phi Sigma.



W. R. PIERCE

Professor, Forest Management. Attended Washington University; B.S. University of Washington; M.F. Yale University; Ph.D. University of Washington. Experience: U.S.F.S. 10 years, teaching 11 years.

**ROBERT W. STEELE**

Associate Professor, Forest Fire Science, Meteorology. B.S.F. Colorado State University; M.F. University of Michigan. Experience: 8 years teaching, 13 years professional.



Montana Foresters

**RICHARD D. TABER**

Professor, Wildlife Biology and Conservation. A.B. University of California; M.S. University of Wisconsin; Ph.D. University of California. Experience: 8 years professional, 10 years teaching. American Specialist U.S. Dept. State, Fulbright Research Scholar, Gussenheim Fellow.

**ELIZABETH HANNUM**

Publications Specialist. Attended Bennington College B.A.; Graduate work at University of Aix-Marseilles (France), University of Montana. Work in fields of fine arts and publications.

1.

We're Montana Foresters, no better can be found.
We're often called upon to measure out the ground.
And when we get to Hades, we'll give a mighty yell.
For Satan, the old devil, is Chief Forester of Hell.

Chorus

I'm a son of a, son of a, son of a, son of a, son of a
forester,
Son of a, son of a, son of a, son of a, son of a
a forester;
Like every honest fellow, I drink my whiskey clear.
I'm a student at Montana, and a son of a gun for
beer.

2.

Now if I had a daughter, boys, I'll tell you what
I'd do:
I'd send her to the Law School to show 'em a thing
or two.
And if I had a handsome son, he'd be a forester too,
And he'd learn to whip the lawyers like his daddy
used to do. (Chorus)

3.

I'm glad I'm not a lawyer, boys, a'wear'n a derby
hat,
And trying to make my living my chewing the filthy
fat.
I'm glad I am a forester, yea thank the Lord for
that!
We're the best men on the Campus, and you may
lay to that. (Chorus)

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GRADUATE STUDENTS

PING-SEN CHIN

Taipei, Taiwan
Major: Wood Utilization
Other Colleges: National Taiwan University



ALFRED L. CHASE

West Brookfield, Mass.
Major: Management
Other Colleges: University of Massachusetts



ROBERT C. HENDERSON

Corvallis, Oregon
Major: Fire Science
Other Colleges: Oregon State University
Druids



TSAI-YING CHOU

Taipei, Taiwan
Major: Wood Utilization
Other Colleges: University of Oregon, National Taiwan University



BILL CUNNINGHAM

Bakersfield, Calif.
Major: Resource Policy and Administration
Other Colleges: University of Montana
Druids, Newman Club, SAF



WILFRED H. POLIQUIN

East Providence, R.I.
Major: Hydrology
Other Colleges: Paul Smith's
Druids, SAF



GERHARD M. KNUDSEN

Missoula, Montana
Major: Management
Other Colleges: University of Montana



ANTHONY J. LUKES

Morton Grove, Illinois
Major: Silviculture
Other Colleges: University of Illinois
Druids, SAF



RONALD E. RIES

Druids, SAF
Powell, Wyoming
Major: Range Management
Other Colleges: Northwest Community College
SRM



S E N I O R S



LAWRENCE L. ANDERSON
Omaha, Nebraska
Major: Range Management
Omaha University, Druids, SAF,
SARM, Forestry Club Treasurer,
Foresters' Ball



BONAR J. ARMSTRONG
Rochester, North Dakota
Major: Recreation
North Dakota School of Forestry
SAF, Missoula JuJitsu Club,
Foresters' Ball



GARY D. BAKER
Billings, Montana
Major: Timber Management
Eastern Montana College
SAF, Xi Sigma Pi, Druids



TERRY WM. BEAHAN
Gravestone, Illinois
Major: Recreation
Xi Sigma Pi, Druids, Silent
Sentinel, Bear Paws, Foresters'
Ball



ROBERT A. CARLSON
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Major: Timber Management
SAF, Forestry Club,
Foresters' Ball



DAVID A. DEEVY
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Major: Range Management
SAF, ASRM, Forestry Club,
Foresters' Ball



JAMES L. DICK JR.
Bedford, Massachusetts
Major: Wood Utilization
Gettysburg College
Druids, XYTechs, Honor Council,
Residence Assistant



DONALD K. DICKSON
Golden, Colorado
Major: Recreation Conservation
Sioux Falls College, S.D.
UCCE, SAF, AFA, Forestry Club,
Foresters' Ball



THOMAS E. ENRIGHT
Great Falls, Montana
Major: Range Management
Druids, ASRM, Forestry Club,
Foresters' Ball



THOMAS M. HANSON
 Coronado, California
 Major: Recreation Management
 Olympic College
 Druids, SAF, AFA, Forestry
 Club Vice President, Historian,
 Foresters' Ball



LARRY J. HOLT
 Snohomish, Washington
 Major: Forest Engineering
 Everett Junior College
 Xi Sigma Pi, SAF, President
 Montana Druids, Forestry Club,
 Foresters' Ball



GERALD B. JIMENO
 Corvallis, Montana
 Major: Recreation Management
 SAF, Forestry Club,
 Foresters' Ball



PHIL JANIK
 Milwaukee, Wisconsin
 Major: Wildlife Management
 Druids, SAF, Newman Club,
 Assistant Head Resident—Elrod
 Hall, Forestry Club, Foresters'
 Ball



EUGENE A. JONART
 Butte, Montana
 Major: Range Management
 ASRM, Druids, Conservation
 Week Chairman, Foresters' Ball



KENNETH G. KNOCHE
 Chappell, Nebraska
 Major: Forest Science
 SAF, Druids, Wildlife Society,
 Xi Sigma Pi, Forestry Club,
 Foresters' Ball



GEORGE K. KANTZ
 Merrick, New York
 Major: Forest Engineering
 Newman Club, Wildlife Club,
 President Montana Druids, SAF,
 Forestry Club, Residence
 Assistant Craig Hall



ALLAN L. LEMON
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 Montana State University
 SAF, Druids, Honor Council,
 Xi Sigma Pi, Forestry Club,
 Foresters' Ball



DAVID D. MCGUIGAN
 Lead, South Dakota
 Major: Wildlife Conservation
 Black Hills State, South Dakota
 Forestry Club, Foresters' Ball



PAUL W. MAKI
Kenosha, Wisconsin
Major: Timber Management
SAF, Montana Druids,
Forestry Club



ROD MORRISON
Lethbridge, Alberta
Major: Recreation Management
SAF, Wildlife Club,
Forestry Club



DAVID MULLER
Corvallis, Montana
Major: Forest Management
Treasurer Montana Druids,
Honor Council, SAF, Queens-
berry Award, Forestry Club,
Foresters' Ball



JOHN R. PAYNE
Fairborn, Ohio
Major: Forest Management
Druids, SAF, NRA, Honor
Council, Forestry Club,
Foresters' Ball



FRANCIS R. SAKAYA
Moshi, Kilimanjaro, Tanzania
Major: Forest Management
Druids, President of
Cosmopolitan Club



VERNON SCHMITT
Custer, South Dakota
Major: Timber Management
Druids, SAF, Xi Sigma Pi,
Forestry Club, Foresters' Ball



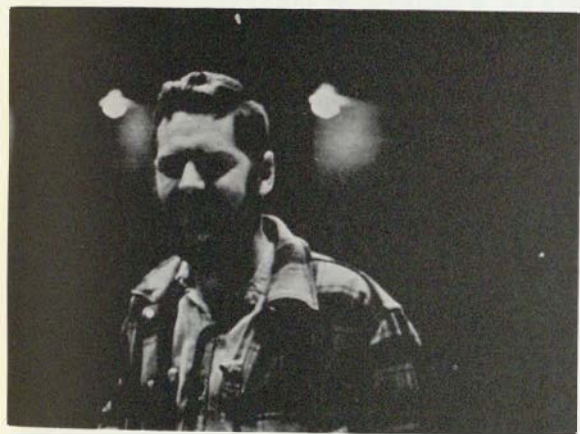
LARRY SCOTT
Edmonds, Washington
Major: Forest Engineering
Druids, Honor Council,
President of Forestry Club,
AWFC Vice President,
Foresters' Ball



ROBERT J. SEMRAD
Harlan, Iowa
Major: Recreation Management
South Dakota State University
SAF, Arnold Air Society,
Forestry Club Historian,
Foresters' Ball

PRESIDENT'S

LETTER



Our Man! Larry Scott



Undivided attention?

The 1966-67 term brought lots of work and excitement to the members of the club. It's amazing that the fellows could work so hard yet keep up on their studies. Without men like this the club would have folded. I would like to take this opportunity to thank everyone for their help in making the year a success.

Spring quarter started out with a few of the members trying to fulfill a club contract, with the Rodeo Club, to dig post-holes at the Field House. The next event was the annual A.W.F.C. Conclave at Idaho. The club really profited by the information other clubs passed on to us. We were lucky enough to bring back the first place trophy for the contests. Jack Hagle again won the Bull of the Woods contest. The delegation then decided to donate the winning chain saw to Idaho for putting on a good show; this turned out to be excellent public relations. When the fellows were back from the Conclave, Al Lemon and Gene Jonart had the biggest Conservation Week ever well under way. This event was topped off with an elk barbeque cooked by none other than Monk DeJarnette and the presentation of an honorary club membership certificate to Miss Gladys Trambley.

Vince Frezzo's Fall Smoker started fall quarter with a big bang. With a little help from Prof. Bob Steele and grad student Bob Henderson, when they tried to burn down the school forest, about eighty freshmen went home quite impressed. Among the plans for the Golden 50th Foresters' Ball, we spent a memorable meeting deciding on the design and colors of the new club sweatshirts. This year's Chief Push, Fred Flint, saw to it that the Ball came off with a minimum of conflict. The Ball was highlighted by a wild crowd and a thank you trophy from Idaho for our generosity the previous spring. Once the Ball was over, we settled down to the books and the annual battle with Main Hall.

Winter quarter was much milder. The quarter was spent listening to the "fine" programs Vice-President Tom Hanson, and Dean Cogswell set up. They were all exciting and controversial.

I would like to wish the underclassmen and next year's officers the best of luck in keeping the Forestry Club the biggest and most active on the University of Montana campus. Thanks again.

Sincerely,

LARRY SCOTT
President

... worthy of the best ...

The Personal Challenge in Renewable National Resources Management

By JOSEPH F. PECHANEC, Director

Management of our renewable natural resources, and more specifically those of forest and rangelands, has always provided a challenge worthy of the best men.



Joseph F. Pechanec

Abundance of these resources—wood, forage, water, soil, wildlife habitat, and space for recreation—has played a dominant part in the development and strength of this great Nation. This view was most forcefully expressed by President Kennedy in the following quotation from his 1961 Message on Natural Resources to Congress:

"From the beginning of civilization, every nation's basic wealth and progress has stemmed in large measure from its natural resources. This Nation has been, and is now, especially fortunate in the blessings we have inherited.

Our entire society rests upon—and is dependent upon—our water, our land, our forests, and our minerals. How we use these resources influences our health, security, economy, and well-being."

At times, in the process of developing these resources, we have exploited them to the point of threatening future abundance. The marks on the landscape of that era are still with us.

Less than two-thirds of a century ago the professions of forestry, range, and conservation in general began in earnest. With persistence, imagination, and strong discipline a corps of natural resource managers, frequently moving beyond the thresholds of existing knowledge, have met an array of challenges. The thrilling tales of the battles they won should be an inspiration to all of us. They brought about strong management measures and policy that bode well for the future.

But the battles are not all won. Far from it! There is an ever-present threat of reversal of policies. Moreover, we must change from our preoccupation with quantity in the management of land to a goal of quality.

To those of us who are already engaged in careers in natural resource conservation, and to those of you who are preparing yourselves for such careers, I can say that the challenges of today and in the future are tremendous. Never before have the multiplicity of issues facing resource managers ever been as great. Those of tomorrow will be infinitely more complex.

Excellence in resource managers, always essential, will be increasingly at a premium.

Among the forces of today and tomorrow that affect

management of our forests and rangelands, I would like to review briefly seven as illustrations. I am sure you could add others. All of these affect or will affect the professional conservationist, the environment in which he operates, and the decisions he makes.

1. The population increase from 123 million in 1930 to nearly 200 million now has brought about increasing pressures on the land base. But we are only at the threshold of a far greater increase. The estimated 325 million people in the year 2000 are projected to demand two times more red meat for their tables, 80 percent more timber products, three times more water for domestic, industrial, and urban use, and three times more recreational opportunities in the out-of-doors.

The increasing affluence and mobility of this population have brought about changes in their demands on the land, as well as a concern about the environment in which they exist—the opportunity for use of leisure time, the beauty of the landscape, and cleanliness of the air and waters.

2. The background and experience of this population with respect to rural land have changed radically during the last four decades. In 1930, about half the population was from rural environments; today only 1 in every 4 persons is from such areas; and in the year 2000, based on projections, only 1 in every 5 is likely to be from rural areas. Thus, an understanding of land and its management, other than as a playground, will become increasingly a heritage of the minority.

3. The background and experience of our elected representatives, those who formulate national and state policy, will also change radically. With reapportionment, an increasing proportion of our State legislatures and our Congress will be made up of leaders who will have little or no background or understanding of the land. I certainly do not say this with any implication that this is bad. I mention it only because it presents challenges to those of us working with forests and rangelands and their resources.

4. Special interest groups, associations and leagues have become a phenomenon of the latter half of the 20th century. Groups with a common objective of promoting or defending their special interests have proliferated unbelievably.

All of these, I am sure, have high and noble objectives and are made up of forthright dedicated individuals. But they can be for some feature of resource management one minute, and against another feature the next. And there is no indication that the proliferation of these organized groups has slowed down a bit.

5. This Nation's capacity to produce, which has been

... production exceeds disposal ...

our principal preoccupation, now seems to exceed our capacity to dispose of the wastes of production, processing, living, transportation and other human activities. This has become abundantly clear from a variety of well-documented unemotional articles emphasizing the pollution of our waters, the pollution of the atmosphere, and the marring of our landscape with wastes.

This has a strong bearing on the management of our forests and rangelands. To the extent to which we have been contributing pollutants to the atmosphere, to the waters, or to the landscape we may be contributing to a total environmental situation that is no longer tolerable.

6. Skillful coordination or blending of uses becomes of paramount importance to meet the increasing pressures on the land. What we do or don't do in forest and rangeland management and use, can affect both adversely and beneficially local, regional, or national goods, services, or interests. Let me give a few examples.

The orderly harvest of overmature timber and prompt regeneration may be essential to produce raw materials for industry and for increasing timber growth. It may also create habitat for certain wildlife species. But at the same time it may temporarily mar the beauty of a landscape, and contribute pollution to the streams.

The spraying of sagebrush may improve range forage production for livestock, and improve watershed conditions. But it may also damage habitat for sage grouse or antelope.

The conversion of aspen or juniper forests to grassland may increase water yields. But the unsightly mess of dead and down material may mar the aesthetics. And in the case of aspen, conversion may adversely affect deer habitat.

The seeding or planting of browse species may improve habitat for deer but may result in damage to tree regeneration in adjacent areas.

The burning of slash may reduce fire hazard and prepare the site for regeneration. But at some seasons of the year it may contribute to air pollution.

Treatment of the air for weather or climate modification may induce more precipitation, but may make conditions more favorable for tree diseases. Weather and climate modification is a good example of the extreme complexity of present-day decisions. I would commend to you for reading the first three challenging and stimulating articles appearing in the March 1966 issue of the *Bulletin of the American Meteorological Society*.

I cite the above examples to illustrate that to an increasing extent, decisions regarding use, protection, management or improvement of any single forest or rangeland resource cannot be made unilaterally and with knowledge of only that single value.

7. Extremely rapid advances being made in recent years in knowledge and technology affect us in two ways.

First, within any single resource field, knowledge about principles, procedures, and practices is rapidly and constantly being enriched. This may relate to a single resource, as well as to the relation of actions taken in behalf of that resource on associated values and services. Thus, there is a constant critical need to keep abreast of knowledge.

Second, rapid advances are being made in associated fields as well as in the general level of knowledge of nonresource managers. This knowledge increasingly seems to be leading to questioning of actions taken or proposed by resource managers. This questioning un-

doubtedly has both desirable and undesirable aspects.

What, then, do these forces mean to those of you who are preparing yourselves for challenging careers in natural resource management? More than half of the Americans living today are less than 25 years old. You and your associates face incredibly complex and difficult problems of both internal and international nature.

Your associates in their various fields of endeavor will be moving rapidly. You, too, must move rapidly and with assurance if our forests and rangelands are to continue to provide the foundation for this Nation's economy, well-being, and way of life.

To do this in the face of the forces I mentioned, and others, presents challenges that will demand excellence from you in several ways. Whether your career is to be in research, education, extension, technical service, or as a landowner or practicing resource manager, these challenges will confront you.

First, the challenge is excellence in your chosen specialization. I am particularly pleased to note that the recognition to be given this evening to several of you young men denotes determination to excel. I congratulate you on this first step. I say the "first step" because with the rapid advances in knowledge and technology that I mentioned earlier you have, upon graduation, only a foundation to build on. There are other steps. Diligent continued study is needed even within your own field to relate to the land or any of its resources the constantly improving knowledge. It is also needed to meet the criticisms or questions of a frequently highly intellectual opposition.

This excellence must also include a working knowledge and appreciation of the interrelations of timber, forage, watershed, recreation, beauty, and air. Even though you may not be in the position of actually coordinating or harmonizing these uses for meeting the demands of the American public, you must be conversant with and understanding of the requirements.

Second, the challenge is excellence in understanding and keeping abreast of the world around you. Social, economic, and political changes on a national and international scale are constantly being shaped. Ignorance or lack of foresight of these can easily sidetrack natural resource management to the detriment of present and future welfare of this Nation.

We and you must not permit this to happen. We must keep knowledgeable, and widen our horizons beyond the immediate resource job in which we are engaged. So that we can intelligently relate our task to the world around us, we and you especially must increase our scale of observation. To illustrate this I like particularly a quotation from *Lecômte du Nôiy's* book "Human Destiny."

Let us suppose that we have at our disposal two powders. One white (flour) and the other black (finely crushed charcoal or soot). If we mix them we will obtain a gray powder which will be lighter in color if it contains more flour and darker if it contains more soot. If the mixture is perfect, on our scale of observation (that is, without the help of a microscope) the phenomenon studied will always be a gray powder. But let us suppose that an insect of the size of the grains of flour or of soot moves around in this powder. For him there will be no gray powder, only black or white boulders. On his scale of observation the phenomenon, "gray powder," does not exist.

Let us not, as a silviculturist, range conservationist, hydrologist, wildlife biologist, or other specialized professional man, be as the microscopic insect on a grain of soot.

Third, the challenge is excellence in participating in or achieving group action. The need for teamwork

... the challenge is excellence in communications ...

is evident at every turn, from the pooling of skills in solving a present-day, complicated research goal or the development of multiple-use plans for a management unit, to the skillful formulation and administration of resource plans on a regional or national basis.

Excellence in achieving group action is also indispensable in bringing together the multitude of proliferating associations or special interest groups. The challenge lies in welding each of these, with a somewhat narrow system of reference, into an effective overall natural resource force having a wide scope of observation able to see that theirs is only part of a "gray powder."

This achievement of ability to participate in or guide group action may be in sharp contrast to the trend in university training, especially at the graduate level. Here the effort is largely directed to ever-increasing specialization, with training in depth emphasized to the detriment of training in breadth. I do not say this is wrong. But I do want to leave with you the challenge to achieve excellence in working with others, as an individual and as a representative of your organization.

Lastly, the challenge is excellence in communication, either in the written word or verbally. This is essential regardless of your field of work in natural resources management. It is necessary to be accurate, clear, concise, and persuasive to convince your associates, and your boss, that you know what you are talking about. It is essential in participating effectively in or guiding group action, whether in the coordination of uses on a piece of land, or in achieving harmony and united support from a group of divergent associations.

But excellence in communication will meet its greatest challenge in the years ahead as an increasing proportion of our population and our elected representatives lacks any background of the land.

As the population moves to metropolitan areas, or megalopolises, and as attrition removes those who have years of experience in rural America in their background, the job of keeping a public informed about natural resources, their importance, and management needs is going to become increasingly difficult. And it is through an informed public that our elected representatives receive their guidance.

This guidance will become increasingly important as these elected representatives come increasingly from urban backgrounds, far removed from rural America. We are fortunate, in this respect, in the Rocky Mountain West, because even though we have some major

centers of population it is difficult to get very far removed from substantial open spaces. Even so, in Utah, 70 percent of the population now resides in four counties along the Wasatch Front.

You may have studied forestry because you wanted to be alone, or because you were antisocial. Opportunities for such indulgence are becoming increasingly scarce. I urge you to become reasonably proficient, or even achieve excellence, in being articulate and persuasive, and in explaining what you are trying to do in nontechnical terms. You and your profession will need popular support for the work ahead.

The rewards for meeting these challenges, awesome and frightening as they may seem, are in my opinion unequalled. A personal career of unparalleled interest; a kinship with the land; a group of associates as dedicated, clean-living and honest as you can find anywhere; and a deep sense of service to mankind—these are among the rewards that await you.

In summary, you are about to enter a vital career in natural resource management in all of its ramifications. The bounteous resources of our forests and rangelands have contributed in a major way to making this a great Nation. With careful husbandry these lands can contribute to future generations to even a greater extent than now.

Every generation of resource managers has had major forces confronting them or affecting their work. But never before have they been so complex. Among those you face are the rapidly expanding population and in turn their increasing demands on the land for goods and services; the shift from a rural to an urban population; the future change in the background of our elected representatives; the proliferation of vocal special interest groups; the ability of this Nation to produce more easily than it can dispose of waste; the interrelation of resource uses and their relation to Man's environment; and the rapid advances in knowledge and technology.

These individually and collectively present challenges for excellence on the part of you who are entering careers in natural resource management—excellence technically in your chosen field and in understanding related resources; excellence in understanding the world around you; excellence in participating in or achieving group action; and excellence in communicating through the written or spoken word.

On our ability to achieve these levels of excellence today, and to even a greater extent on your abilities tomorrow, depends the future of America's forest and rangeland resources. The evidence before us bodes well for the future.

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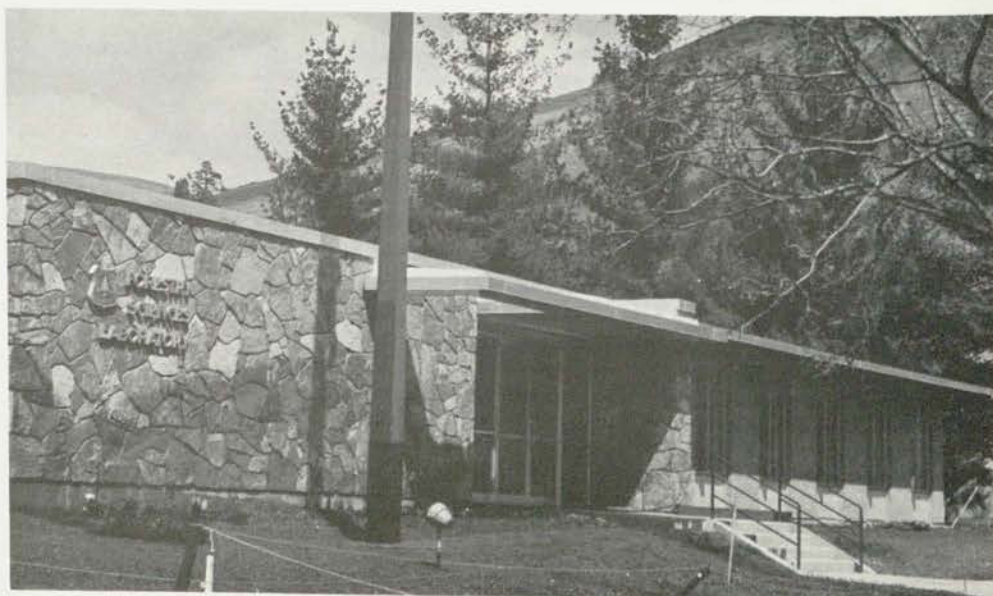
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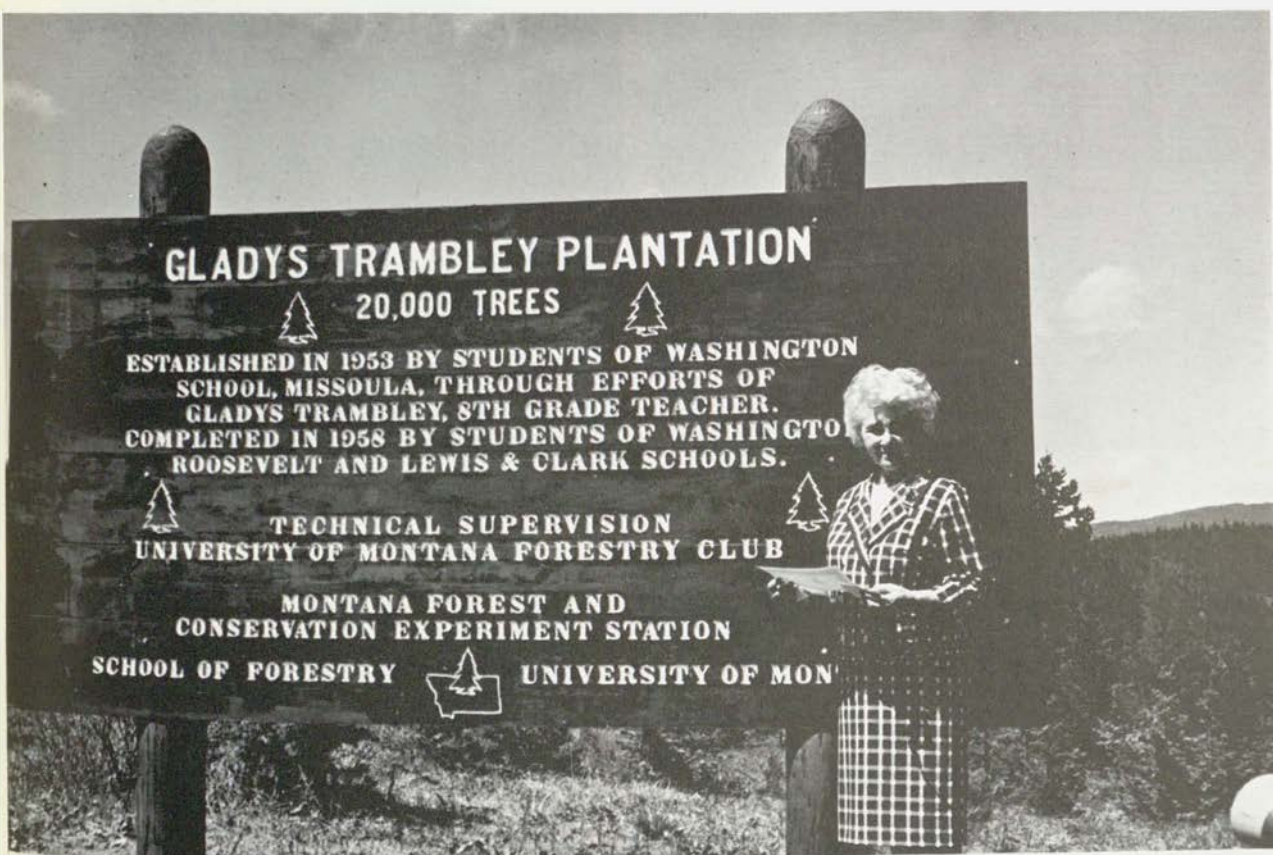
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Conservation Week Activities



Gladys Trambley



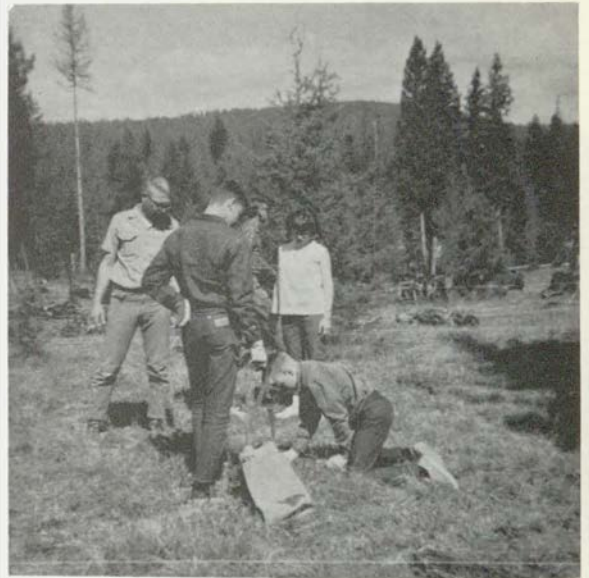
Tree Planting—Foresters dream—"Nightmare"



Bellman tries his hand at teaching



Monk



This little thing

The annual Conservation Week program on May 7, 1966, was especially challenging for the school, as it was decided that we would honor one of the founders of the program by dedicating the grounds in her name. The sign for Miss Gladys Trambley was made free by the State Forester's office and erected northeast of the camp buildings at Lubrecht.

An elk barbecue concluded the program. With the generous aid of students and instructors and especially Monk DeJarnette, about 450 were fed.

Planting lines were laid out in advance and greatly aided efforts to plant the trees. The total planting time was approximately two

hours. The movies were previewed by the student body the week before, and each speaker chose a movie and prepared a talk. The program was facilitated by the seniors not going to the Senior Spring Camp.

An early start in February was the real key to the success of the program. A total of \$75 was spent by the Club to finance the project. The cooperating teachers were very interested and are hoping that the Forestry Club's program will continue. Their seriousness should be considered instrumental to the program. This year 18 public schools and 2 Catholic schools participated. Slide talks increased and improved from last year.

Conservation Week Committee, 1966

E. A. JONART

TOM HANSON



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Old and new



Chow!



Who dat!



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A.W.F.C. Conclave

University of Idaho

April 27-30, 1967

The 15th annual A.W.F.C. Conclave, held at the University of Idaho, provided keen competition. The University of Montana narrowly won, defeating Utah State University by one point.

The trophy and chain saw were presented to Larry Scott, who turned around and presented the chain saw to the Associated Foresters of the University of Idaho.

The nine teams entered in the competition were the University of Montana, Utah State University, Arizona State University, Humboldt State College, University of Arizona, Oregon State University, University of California, Colorado State University, and the University of Idaho.

The four "Bull-of-the-Woods," representing three teams, were Jack Higle of the University of Montana, Joe Dillard of Humboldt State College, Tom Baxter of Utah State University, and Paul Kihlmire of Utah State University.

The University of Montana A.W.F.C. Conclave delegation was composed of Ken Kneche, A.W.F.C. Vice-President, Larry Scott, Dave Muller, Al Holzman, Warren Osik, Jack Higle, Keith Newburn, John Jay, Joe Wagner, and Larry Holt.





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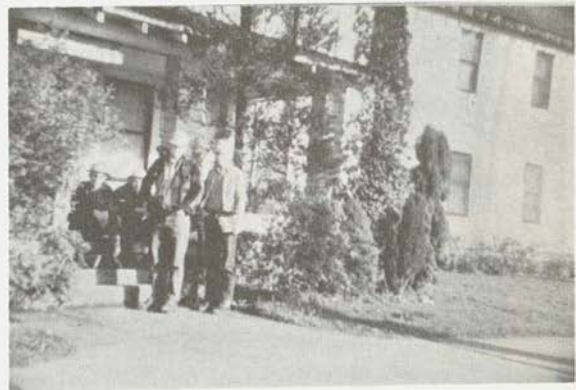
Management Trip



Left to right: Dick Barr, Arnie Brosten, Norm Ringhand, High Climber, Ron Ries, Niel Malacasion, Chuck Watters, Jerry Sheldon, Gary Knudsen, Mel Holloway, John Jungers, Norm Schweizer, John Flynn, Bill Cunningham, Keith Mosbaugh, Don Kendal, (?), Don Schramm, Bill Mayhew, Dennis Lucy, Charles Johanningmeier.



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Mr. Joseph Pechanec speaks on our renewable resources



Wyman Schmidt presents John Drewek with Alumni Association Award



Mick Harrington receives the Queensberry Award from Fred Gerlach



Bob Semrad is duly awarded the Busted Razor Award



... for the boner of the year Don Kendall receives the Broken Choker Award

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Fire wood



Don't push



Flying ax



B.S. party

The 1966

Fall Silviculture Trip

The primary purpose of the annual silvicultural methods trip is to show the various silvicultural systems and cultural operations that are employed in the northern Rocky Mountains. In viewing the different systems, the major point that is stressed is the fitting of the silvicultural system to the requirements of the species. Not only do different species respond differently to a given silvicultural system, but for a given species the different site conditions may necessitate modification of the system chosen. Realization of this point is one of the hoped for results of this trip.

Before we left Missoula, certain ground rules for conduct were laid down which in retrospect made the trip more enjoyable for the majority (not to mention Dr. Blake and his two teaching assistants). The primary purpose of these rules was to enable the group to meet the tight schedule to which we were committed.

Friday morning saw the departure of two bus loads of Montana foresters filled with the spirit of adventure and a burning thirst for knowledge???? The trip started successfully. No one missed the bus that morning, but Bob Thomas (the Kaimin editor) sure tried hard.

Our first stop was the Coram Experimental Forest near Hungry Horse. While at Coram, our tour guide was Wyman Schmidt of the USFS. Wyman explained to the group that the Coram Experimental Forest is primarily set aside for studying the silviculture of western larch and related species. During the three hours we spent at the forest, we were given a rundown of the major studies presently being carried out on the forest and the results of past studies.

Because our accommodations for the night were in Libby, Mont., 130 miles away, and one

of our buses needed mechanical repair, we were forced to cut short our tour of Coram and head for Libby.

When we arrived at Libby around 8:00 that evening we were given a slide talk by Gene Yava of the J. Neils Division of the St. Regis Paper Co. Gene gave us an introductory talk on the operations of the Company with special emphasis on the pioneering work done by the Company in burning techniques and the seed tree system.

Accommodations for the night were at the Libby Ranger station, and the less said the better.

Saturday

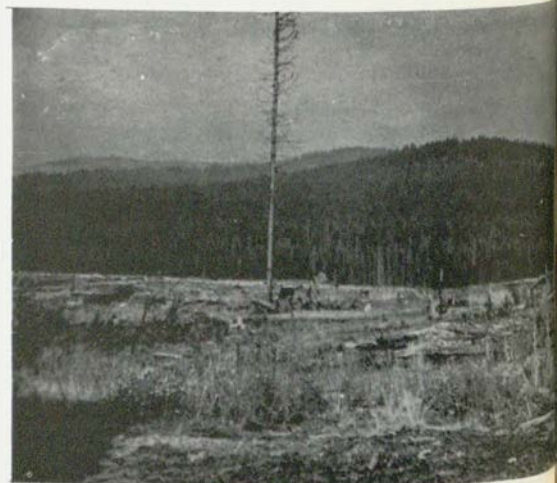
John McBride and Russ Hudson, block foresters for St. Regis, gave us a guided tour of the work being done in the Fisher River Drainage, northeast of Libby. The most impressive facet of this tour was the competent use of fire as a silvicultural tool. The various uses to which fire is put by St. Regis were both viewed and discussed. Before departing for Coeur d'Alene, we had a chance to see a chemical thinning in ponderosa pine and the result of a control burn in hemlock in the upper Bull River.

Once again our housing was provided by the USFS, this time at the new Coeur d'Alene nursery just east of Coeur d'Alene. The seed extraction building there provided restful housing for the next two nights.

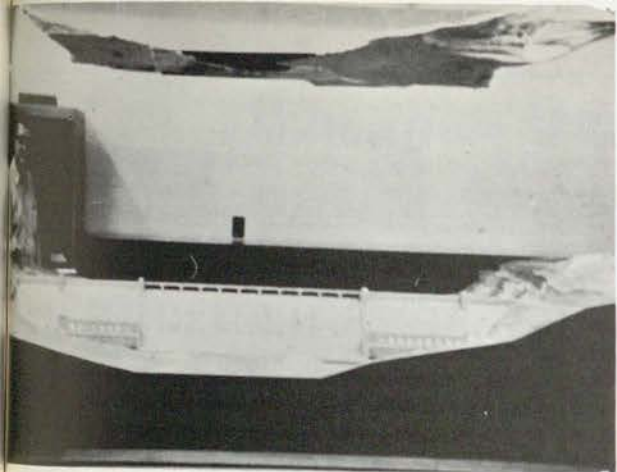
On Sunday morning we were given an introduction to the coming days' activities by Glenn Deitschman, a silviculturalist from the Inter-mountain forest and range Experimental Station. By way of introduction he outlined the various research projects currently under way



Gather around



How many acres per seed tree?



Grand Coulee Dam



Like to run naked through a park?



Not a bar open in town

by the station in the Intermountain area. Afterward we boarded the buses and headed for Reception Creek Experimental Forest, 35 miles northeast of Coeur d'Alene. Once at Reception Creek, Glenn took us on a tour of the forest which is devoted primarily to the silviculture of Western white pine.

Continued bus trouble delayed our return to Coeur d'Alene and forced the cancellation of the evening tour of the Nursery. However, the head nurseryman did give an informal tour of the facilities at the nursery for those students who were lucky enough to be on the first bus and wanted to take part.

Early Monday morning we headed for Coulee Dam, Washington to view the forestry practices of the Bureau of Indian Affairs at Coulee Dam, Washington. Our host and guide was Dick Popp who showed us some of the pioneering work done by Harold Weaver in thinning ponderosa pine stands with fire. The various silvicultural practices and the reasons behind them were discussed in quite some detail before we re-

turned to Grand Coulee to spend the night. Both the Bureau of Indian Affairs and the mayor of Grand Coulee went to great effort to make our stay as informative and as comfortable as possible. A special voluntary tour of Grand Coulee dam was arranged for the evening's entertainment.

Tuesday morning we started the long trip back to Missoula with an afternoon stop at Moscow, Idaho, to view Richard Bingham's work with Blister Rust resistant white pine. The tour of the Forest Science laboratory there, though short, gave a good introduction to the type of facilities needed to support silvicultural research. Bob Fiester was our principal tour guide at Moscow.

With our trip schedule completed, we eagerly boarded the buses with fond hopes of spending the night in a soft bed (for a change). For pleasant dreams we could think about the hard floors of the previous four nights and the required report on the trip.

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How Does Our Timber Grow?

By W. R. PIERCE

If it grows like the garden of the nursery rhyme it grows very well. But such a claim we cannot make, for it grows like an untended, unweeded garden and most everyone knows that in such a garden the plants we want do not do very well. You do not even have to be a gardener to make this observation. But when it comes to placing a forest in a category of growing well or poorly the men trained to act as the gardener to this most wonderful of gardens will have difficulty in finding an adequate yardstick by which to measure growth.

The productive capabilities of the vast forests of the West remain an enigma to the men that attempt to manage them. The biological community with which they have to work is an infinitely varying thing, so finding the answers to this question is not going to be easy, but find the answers we must.

A vast amount of time, money and energy is going into the research on forest growth. Most of it is being used to establish permanent growth plots. They are needed in large numbers to cover the full spectrum of variables confronting the forester. The Forest Service with its vast forest land management obligations is the leader of this effort. A similar program is being developed by the Forest and Conservation Experiment Station of Montana for Lubrecht Forest and for the private forest lands that make up the Green Mountain Soil and Conservation District of Sanders County.

In 1960 the first 30 of an eventual 100 plots were established on Lubrecht Forest. In 1965 the balance of the plots were established and the first 30 were re-measured. Remeasurement will be repeated every 5 years.



Aerial view of growth

The plots are one-fifth acre in size and permanently marked at the center with a three-foot section of $\frac{3}{8}$ inch iron reinforcing rod. All trees 4.6 inches in diameter at breast height and larger are numbered and have their own IBM card record. Processing of these cards by the 1620 computer results in a tabular listing of average age and height of the dominant trees for each species, basal area by species, and volumes, cubic and board feet, by species and size class. The repetition of such tables at 5 year intervals will provide growth and stand structure change information so badly needed by the forest manager.

The private forest lands in Western Sanders County are the recipient of 360 plots; 180 were established in 1965 and the balance were put in during the summer of 1966. This was a cooperative effort that involved the Soil Conservation Service, Forest Service, State Forester, and the Forest and Conservation Experiment Station.

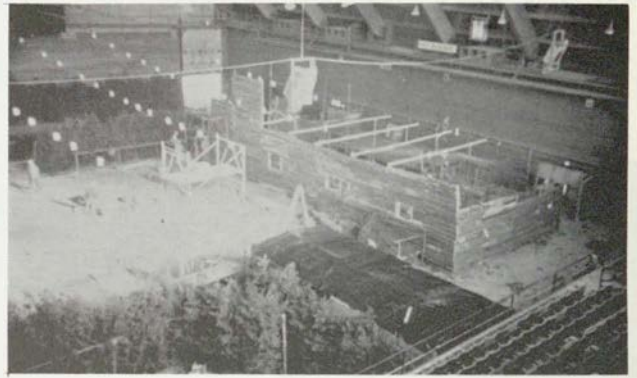
Lands on which these plots are located receive no special treatment, so their periodic remeasurement will reflect the effect of whatever type of management is being used. Changes in the vegetation over the years should be an indication of the effectiveness of man's efforts toward achieving better management, be it on private or on public lands, and a yardstick by which the future growth of similar forests can be estimated.



Plot in heavy timber



*It doesn't tickle. It doesn't tickle.
It, Ehhhhhh!!*



Shaping-up



Something for nothing

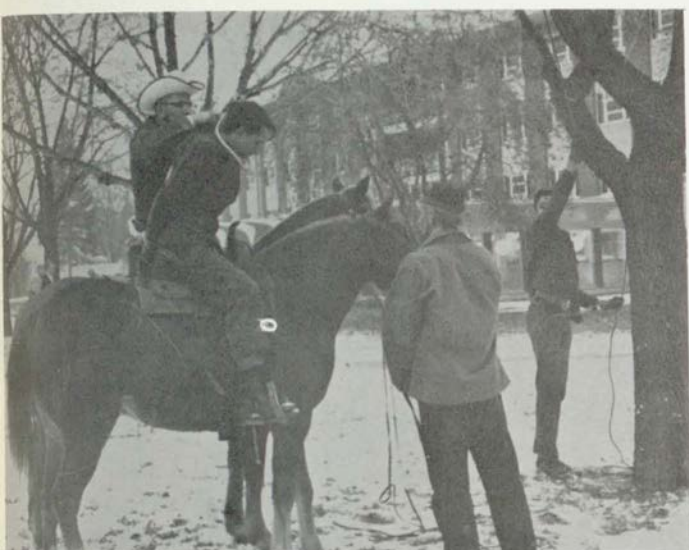


The mob

Committee Heads

Assistant Push	Jim Glenn
Art	Terry Case
Bar Exterior	Dave Muller
Bar Interior	Tom Enright
Blue Snow	Bob Semrad
Boondockers Day	Bob Meuchel
Chow	Debby Trenerry
Chow Hall	Al Lemon
Clean Up	Vinnie Frezzo
Coat Room	Larry Holt
Convo	Gary Baker
Doorway	Keith Flaugh
Equipment	Dave Bunnell
Exhibition Room	Vern Schmitt
Finance	Jerry Okonski

Gym Decorations	Elbert Reed
Lighting	Bonar Armstrong
Make Out Room	Bob Thomas
Photo Booth	John Bently
Posse	Don Dixon
Publicity	Joe Wagner
Safety	Larry Scott
Slab Hauling	Larry Anderson
Special Effects	Ken Meierotto
Stage	John Knorr
Ticket Booth	Paul Uken
Tickets	Ken Knoche
Time Keeping	Tom Hanson
Tracks	Terry Case
Tree Cutting	Keith Newburn



A new necktie for a lawyer



We're ready



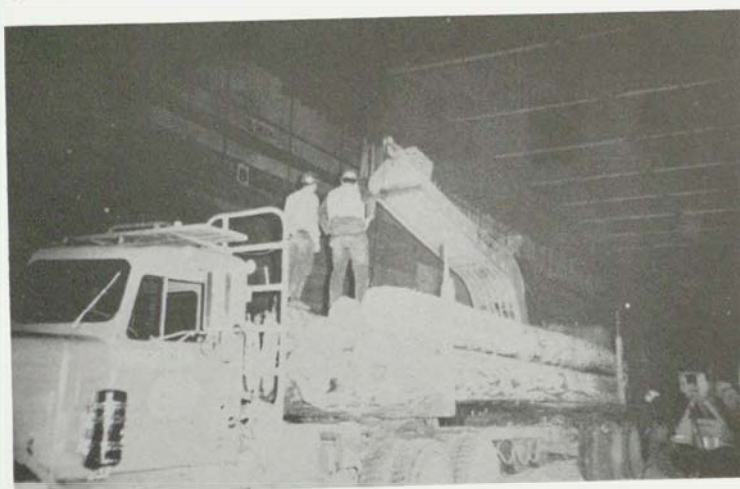
You forgot what?



An organizational meeting



The Can-Can girls



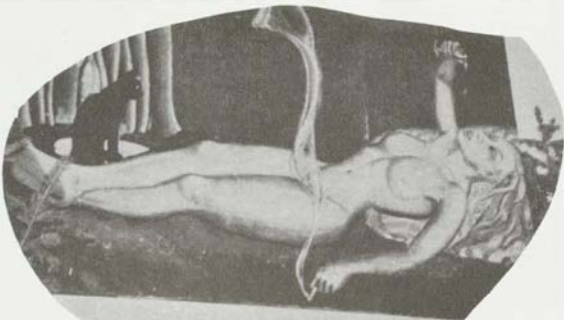
Crank'er up



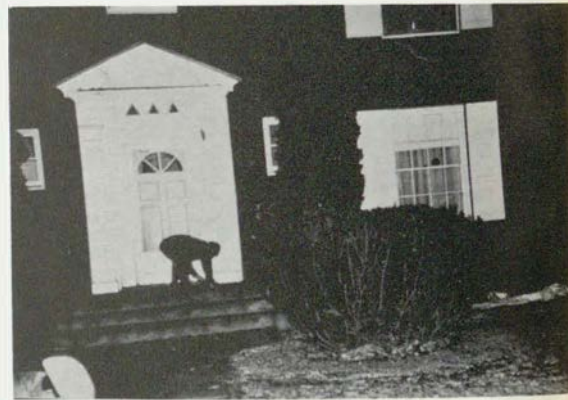
Judges



Winners??????



Dream!!!!



Tracks



Sheeps!!!!



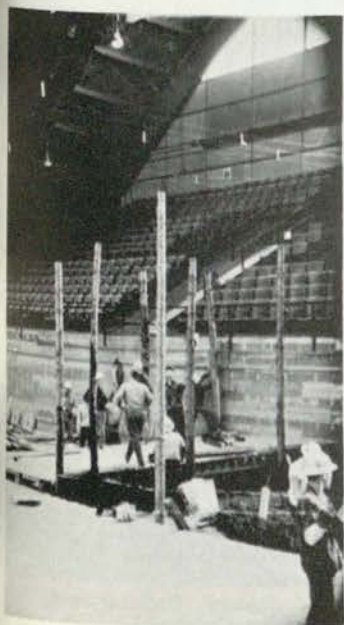
Committee meeting



Down with the floor



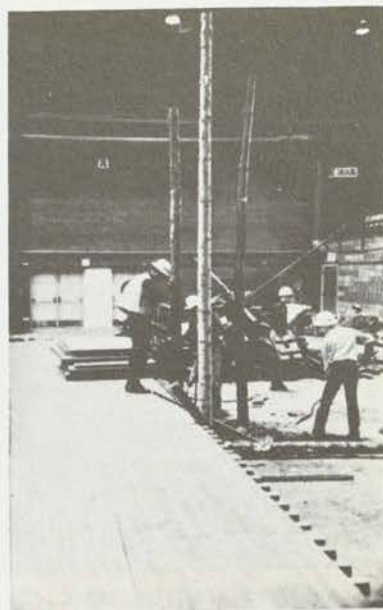
The big picture



Chow hall



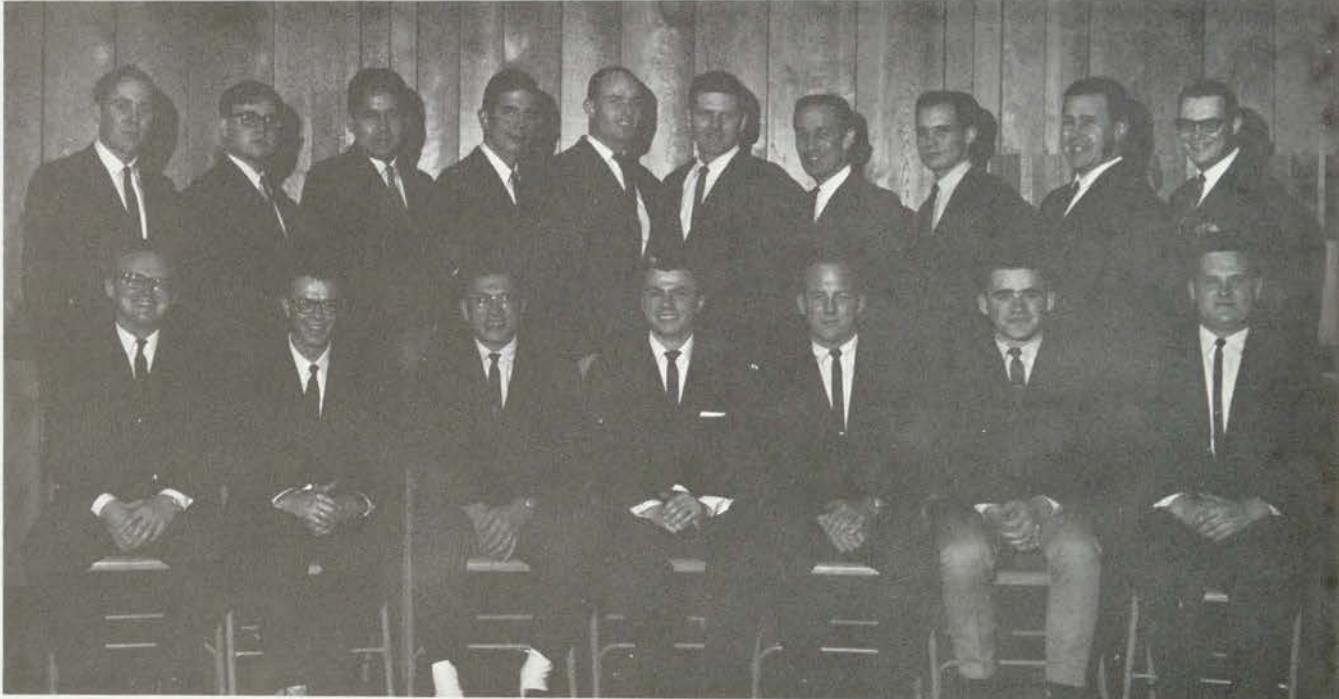
Hard at work



Make Out Room

Forestry Club Members

SENIORS



Back row, left to right: Bob Pound, Vern Schmitt, Eric LaPointe, Thomas Hanson, Ken Knoche, Larry Scott, Al Lemon, Larry Holt, Robert Carlson, Gene Jonart. Front row, left to right: Paul Maki, David Deevy, Gerald Jimeno, Bob Semrad, John Hendrickson, Dave Muller, Bob Thomas

SOPHOMORES



Back row, left to right: Clarence Hoveland, Douglas Ford, Keith Newburn, Mike Stokan, Dick Shimer, Jim Sweeney. Front row, left to right: Bob Meuchel, Debby Trenerry, Edith Shire, Dwight Crawford

Forestry Club Members

JUNIORS



Back row, left to right: Al Mills, John Jay, Ted Giesey, Jim Glenn, John Knorr, Ron Myers, Joe Wagner. Front row, left to right: Mike Rutledge, John Bentley, Susan Ruder, Jerry Okonski, Don Clift

FRESHMEN



Back row, left to right: Dave Swanson, Craig Thomas, Joe Plahuta, Tony Liane, Ralph Stout, James Kranz, Dave Smith. Front row, left to right: Doug Tettletbach, Jim Eller, George Scott, Dennis Shupak, Terry Moness, Bernie Michaeli

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Kneeling, left to right: Jerry Okonski, John Jay, George Kantz, Bob Pound. Sitting, left to right: Dave Muller, Carl Gustafson, Larry Holt, Al Lemon, Gene Jonart. Standing, left to right: Tom Enright, Bob Henderson, Phil Janik, Joe Wagner, Francis Sakaya, Ken Knoche, Gary Baker, Larry Scott, Gerhard Knudson, Tom Hanson, Terry Beahan, Vern Schmitt, Bill Cunningham, Larry Anderson, John Payne, Dick Shimer, Paul Maki, Andy Lukes, Will Poliquin, Bob Thomas, Jim Dick

Executive Board



Back row, left to right: Tom Hanson, Ron Myers, Ken Knoche, Keith Newburn, Mike Stokan, Larry Scott, Joe Wagner, Dick Shimer, Bob Thomas. Front row, left to right: Jim Eller, Gerald Jimeno, Bob Semrad, Jim Glenn.

XI SIGMA PI



Back row, left to right: Larry Holt, Terry Beahan, Ken Knoche, Al Lemon, Vern Schmitt, Dick Claunch. Front row, left to right: Gary Baker, Susan Ruder, Ron Ries.

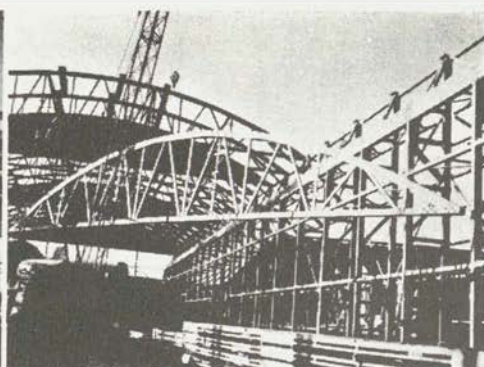
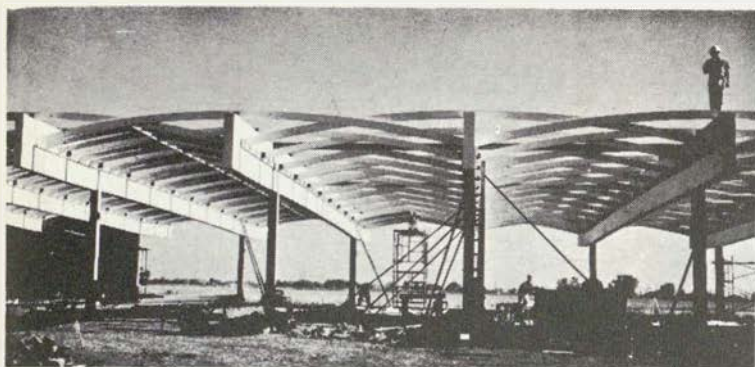
Xi Sigma Pi is a national forestry honor fraternity. This fraternity was founded at the University of Washington on November 24, 1908. The organization existed as a local honor society at the University of Washington until 1915 when a new constitution was adopted which permitted wider membership. As of 1962 there were twenty-two active and one inactive chapters of Xi Sigma Pi throughout the United States.

The chapter at the University of Montana, Phi Chapter, was started in 1960. The membership is made up of both faculty and student members.

The requirements for membership in Phi Chapter of Xi Sigma Pi are as follows: The student shall have completed seven quarters of standard forestry college

work, at least one quarter in residence at a scholastic grade point average of 3.0 or above. He shall have shown a creditable interest and activity in practical forestry work, and shall show promise of attaining high professional achievement. Election to membership is based upon a composite rating rather than scholarship alone.

The objectives of Xi Sigma Pi, as stated by the constitution, are to secure and maintain a high standard of scholarship in forestry education, to work for the upbuilding of the forestry profession, and to promote fraternal relations among earnest workers engaged in forestry activities.



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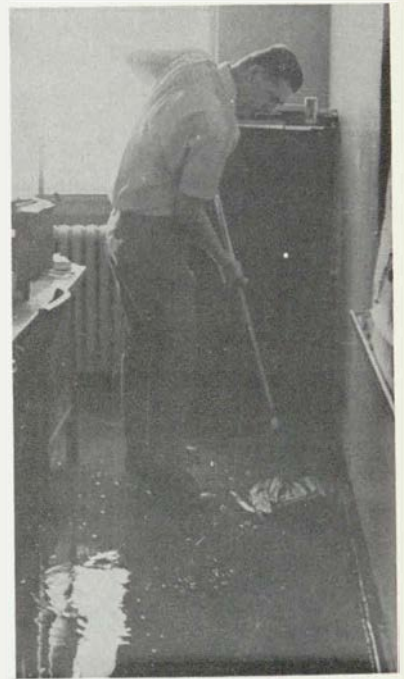
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Missoula

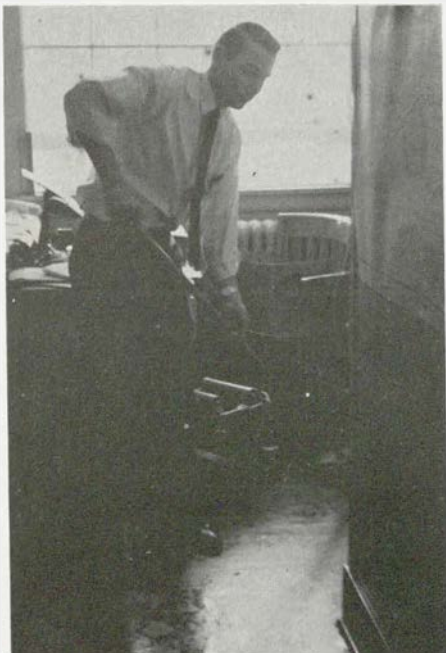
The Great Flood



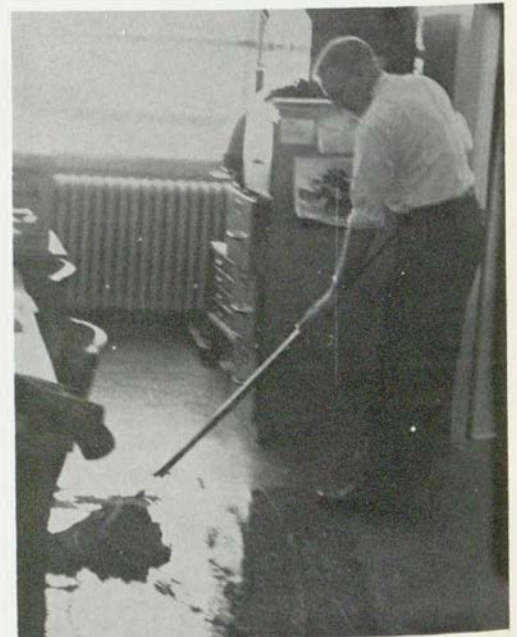
How long can you tread water, Baker?



*A Forest Engineer wet-mopping
the office*



Water grows grass, but——



Water Research??

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Editor's Notes



Editor: Robert Thomas, Assistant Editors Sue Ruder and Dave Swanson

I would like to thank everyone who helped me on this yearbook. My thanks go to the people who let me use their pictures and slides, to those who did the typing, and to those who did the big job of chasing ads. I would also like to give Ray Stewart a special big thanks for all his help and ideas.

The activities of the year were covered to the best ability of my staff. We hope you enjoy this year's FORESTRY KAIMIN.

Thank you,
ROBERT I. THOMAS
Editor